

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A process of preparing a desired aliphatic fluorocarbon product comprising the following steps:
 - a) subjecting an aliphatic fluorocarbon starting compound to a treatment which will break at least one chemical bond of said aliphatic fluorocarbon starting compound to form a reactive aliphatic fluorocarbon intermediate compound;
 - b) reacting the reactive aliphatic fluorocarbon intermediate compound with another compound or another reactive intermediate to yield i) the desired aliphatic fluorocarbon product or an intermediate which will lead to the desired product and ~~to~~ ii) some undesired aliphatic fluorocarbon products;
 - c) separating said desired aliphatic fluorocarbon product from any undesired aliphatic fluorocarbon products; and
 - d) recycling any undesired aliphatic fluorocarbon products to step a).
2. (Original) A process according to claim 1, wherein the chemical bond of said aliphatic fluorocarbon starting compound is broken by pyrolyzing said aliphatic fluorocarbon starting compound.

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3. (Original) A process for preparing trifluoroethylene, [TFE], in greater than 50% yield comprising pyrolyzing 1-chloro-2,2,2-trifluoroethane, [R 133a], at a temperature below about 725°C.

4. (Original) A process for preparing 1,1,1,3,3-pentafluoropropylene, [PFP], comprising pyrolyzing 1-chloro-2,2,2-trifluoroethane in the presence of chlorodifluoromethane at about 725-750°C.

5. (Previously Presented) A process according to claim 1, which is for preparing 1,1,1,2,3,4,4,4-octafluoro-2-butene, [OFB], comprising pyrolyzing 1-chloro-1,2,2,2-tetrafluoroethane, [R 124].

6. (Original) A process for preparing 1-chloro-2,2-difluoroethylene, [CDFE] comprising pyrolyzing 1-chloro-2,2,2-trifluoroethane at about 700°C and at less than 10% conversion.

7. (Original) A process for preparing 1,1-dichloro-2,2-difluoroethylene, [DCDFE], comprising pyrolyzing 1-chloro-2,2,2-trifluoroethane in the presence of chlorodifluoromethane, [R 22], and hydrogen chloride.

8. (Original) A process for preparing 1,1,1,2,3,4,4,4-octafluoro-2-butene

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comprising pyrolyzing 1,1,2,2,2-pentafluoroethane, [R 125].

9. (Original) A process for preparing 1,2,2,2-tetrafluoroethane, [R 134a], comprising pyrolyzing 1,1,2,2,2-pentafluoroethane.

10. (Previously Presented) A process according to claim 1, which is for preparing 1,1-dichloro-1,2,2,2-tetrafluoroethane, [R 114a], comprising pyrolyzing 1-chloro-1,2,2,2-tetrafluoroethane.

11. (Original) A process for preparing perfluorobutane, [PFB], comprising pyrolyzing 1,1,2,2,2-pentafluoroethane.

12. (Original) A process for preparing 1,1,2,2,2-pentafluoroethane comprising pyrolyzing 1-chloro-2,2,2-trifluoroethane.

13. (Canceled)

14. (Previously Presented) A process according to claim 1, which is for preparing a desired aliphatic fluorocarbon product, said process comprising the following steps:

- a) subjecting an aliphatic fluorocarbon starting compound being selected from 1-chloro-2,2,2-trifluoroethane [R133a], 1-chloro-1,2,2,2-tetrafluoroethane [R124] and 1,1,2,2,2-pentafluoroethane [R125] to a treatment which will break at least one chemical bond

of said aliphatic fluorocarbon starting compound to form a reactive aliphatic fluorocarbon intermediate compound;

- b) converting the reactive aliphatic fluorocarbon intermediate compound to i) the desired aliphatic fluorocarbon product or an intermediate which will lead to the desired aliphatic fluorocarbon product and ii) at least one undesired aliphatic fluorocarbon product;
- c) separating said desired aliphatic fluorocarbon product from any undesired aliphatic fluorocarbon product formed in b); and
- d) recycling the undesired aliphatic fluorocarbon product to step a).

CONDITIONAL PETITION FOR EXTENSION OF TIME

If entry and consideration of the amendments above requires an extension of time, Applicants respectfully request that this be considered a petition therefor. The Commissioner is authorized to charge any fee(s) due in this connection to Deposit Account No. 14-1263.

ADDITIONAL FEE

Please charge any insufficiency of fees, or credit any excess, to Deposit Account No. 14-1263.